

## K00095 RELAY/TRANSFORMER KIT FOR DUAL CIRCUIT CONDENSERS

Installation Instructions

## **CAUTION**

## Disconnect power supply to ice machine and remote condenser before beginning installation to prevent electrical shock or equipment damage.

- A. Transformer Installation
  - 1. Transformer is supplied for mounting to 4" square outlet box.
  - 2. Mount outlet box(es) for transformer in convenient location as close to ice machine as possible. (Note: Do not install transformer to outlet box at this time.)
- B. Relay Installation (Figure 1)

C.

- 1. Remove remote condenser fan cover.
- 2. Remove electrical enclosure box between two fan support brackets.
- 3. Mount relay(s) to relay bracket with #6-32 screws and nuts.
- 4. Loosen fan support brackets enough to slide relay bracket between condenser housing and fan support bracket (Figure 1).
- 5. With relay bracket in place, tighten fan support brackets.
- Wiring Connections (Figure 2, "G" Series; Figure 4, "B" Series)

The Relay/Transformer Kit is used for either 1 phase or 3 phase ice machines (this can be any combination, although most installations will have two ice machines of the same phase).

All wiring must comply with national and local codes.

- 1. Wiring transformer to ice machine.
  - The multi-voltage transformer primary is rated for 120 VAC, 208 VAC, or 240 VAC.
    - a. Wire transformer primary to match supply voltage at ice machine.
    - b. Label on transformer identifies different voltage hookups. Be sure you are using correct leads on transformer for available power supply. **Secure wire nuts to the transformer wires not in use.** (Note: It is wired correctly if you read 24 VAC at transformer secondary with power supplied to transformer.)
- 2. Wiring transformer low voltage (24 VAC) to relay coil (Figure 2, "G" Series, Figure 4, "B" Series).
  - a. Low voltage wire is supplied by the installer.
    - b. Step "C" is a safety precaution to prevent the low voltage circuit from being energized by high voltage.
    - c. If low voltage wiring insulation is not rated for high voltage wiring, you must place PVC tube over the wire before crimping the 3/16" terminals to wires. (Note: The PVC tube is needed only in the condenser enclosure and may be cut off after exiting condenser.)
- 3. Wiring relay contacts to fan motor.
  - a. Condenser fan electrical supply is separate from ice machine electrical supply.
  - b. Wire relay contacts in parallel to the condenser fan (refer to Figure 2, "G" Series; Figure 4, "B" Series). (Note: Disregard one of the jumper wires supplied.)
  - c. A single ice machine may be installed to the DC remote condenser with the anticipation of installing the second machine at a later date. Refer to Figure 3 for relay wiring connections to fan motor.

## D. Checkout Procedure

- 1. Turn <u>on</u> machine #1 and turn <u>off</u> machine #2. Fan motor must be running.
- 2. Turn <u>off</u> machine #1 and turn <u>on</u> machine #2. Fan motor must be running.
- 3. Turn off machine #1 and turn off machine #2. Fan motor must be off.

8008523 Sheet 1 of 1 Rev. 05/17/01